(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



55246/

(43) International Publication Date 21 October 2004 (21.10.2004)

PCT

(10) International Publication Number WO 2004/090049 A1

(51) International Patent Classification⁷:

C09D 1/00

(21) International Application Number:

PCT/KR2004/000791

(22) International Filing Date:

3 April 2004 (03.04.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data:

10-2003-0021570

7 April 2003 (07.04.2003) KR

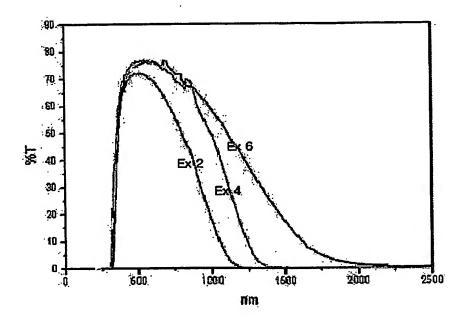
- (71) Applicants (for all designated States except US): AD-VANCED NANO PRODUCTS COMPANY LIMITED [KR/KR]; 244, Buyong Industrial Complex, Gumho-ri Buyong-myeon, Chungwon-gun, Chungcheongbuk-do 363-942 (KR). TORAY SAEHAN INCORPORATED [KR/KR]; 93-1, Imsu-dong, Gumi-city, Gyungsangbuk-do 730-350 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PARK, Jang-Woo [KR/KR]; 109-1604 Hanul Apt., 160-1 Sinseong-dong

Yuseong-gu, Daejeon 305-805 (KR). KIM, Sung-Ryul [KR/KR]; 104-703 Jugong Apt., 57 Hwigyeong-dong Dongdeamun-gu, Seoul 130-090 (KR). CHOI, Su-Mi [KR/KR]; 7-101 Gyeryong Apt., Boksu-dong, Seo-gu, Daejeon 302-210 (KR).

- (74) Agent: KIM, Joon-Soo; 6th Fl., Yeongjin-Bldg., 300-15, Gaya 3-dong Busanjin-gu, Busan 614-803 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: POWDER FOR ISOLATING INFRARED RAYS, AND ISOLATING SOLUTION AND GOODS USING THE SAME



(57) Abstract: Disclosed is a novel concept of infrared blocking powder, that is to say, indium antimony tin oxide (IATO), which is produced by mixing indium (In), antimony (Sb), and tin (Sn) in a predetermined mixing ratio, and co-precipitating a mixture in solvent. Additionally, the present invention provides infrared blocking solution and infrared blocking material using the infrared blocking powder, which allow visible rays to transmit therethrough but effectively block near-infrared rays acting as thermic rays.

WO 2004/090049 A1



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report